

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Previously presented): Seed of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 2 (Original): A canola plant, or parts thereof, produced by growing the seed of claim 1.

Claims 3-42 (Canceled)

Claim 43 (Previously presented): The canola plant part of claim 2, wherein said part is pollen.

Claim 44 (Previously presented): The canola plant part of claim 2, wherein said part is an ovule.

Claim 45 (Previously presented): A tissue culture of regenerable cells from the plant of claim 2.

Claim 46 (Currently amended): A The tissue culture according to claim 45, wherein the cells or protoplasts of the tissue culture are from a tissue plant part selected from the group consisting of leaf, pollen, cotyledon, hypocotyl, embryo, root, pod, flower, shoot and stalk.

Claim 47 (Previously presented): A canola plant regenerated from the tissue culture of claim 45, wherein the plant has all the morphological and physiological characteristics of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 48 (Previously presented): A method for producing a first generation hybrid canola seed wherein the method comprises: crossing the plant of claim 2 with a different inbred parent canola plant, and harvesting the resultant first generation hybrid canola seed.

Claim 49 (Currently amended): The method of claim 48 for producing a first generation hybrid canola seed, ~~wherein the female parent is designated 45A55 wherein 45A55 is the female parent~~, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 50 (Currently amended): The method of claim 48 for producing a first generation hybrid canola seed, ~~wherein the male parent is designated 45A55 wherein 45A55 is the male parent~~, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 51 (Previously presented): A canola plant, or parts thereof, having all the physiological and morphological characteristics of the plant of claim 2.

Claim 52 (Previously presented): The canola plant part of claim 51, wherein said part is pollen.

Claim 53 (Previously presented): The canola plant part of claim 51, wherein said part is an ovule.

Claim 54 (Previously presented): A tissue culture of regenerable cells from the plant of claim 51.

Claim 55 (Currently amended): A The tissue culture according to claim 54, wherein the cells or protoplasts of the tissue culture are from a ~~tissue~~ plant part selected from the group consisting of leaf, pollen, cotyledon, hypocotyl, embryo, root, pod, flower, shoot and stalk.

Claim 56 (Previously presented): A canola plant regenerated from the tissue culture of claim 51, wherein the plant has all the morphological and physiological characteristics of canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684.

Claim 57 (Previously presented): A method for producing a first generation hybrid canola seed wherein the method comprises:
crossing the plant of claim 51 with a different inbred parent canola plant, and harvesting the resultant first generation hybrid canola seed.

Claim 58 (Previously presented): The method of claim 57 for producing a first generation hybrid canola seed, wherein the different inbred canola plant is a female parent.

Claim 59 (Previously presented): The method of claim 57 for producing a first generation hybrid canola seed, wherein the different inbred canola plant is a male parent.

Claim 60 (Currently amended): A method for producing a first generation (F1) canola variety 45A55 progeny canola plant, wherein the method comprises:
(a) crossing canola variety 45A55, representative seed of said canola variety 45A55 having been deposited under ATCC Accession No. PTA-5684 with a second canola plant to yield progeny canola seed; and
(b) growing said progeny canola seed, under plant growth conditions, to yield said first generation (F1) canola variety 45A55 progeny canola plant.

Claim 61 (Previously presented): A method for producing a male sterile canola line wherein the method comprises:
crossing the canola plant of claim 2 with a second canola plant to yield progeny canola seed, wherein the second canola plant has cytoplasmic male sterility; and
growing said progeny canola seed to yield an F1 male sterile canola plant.

Claim 62 (Previously presented): Protoplasts produced from the tissue culture of claim 45.

Claim 63 (Previously presented): Protoplasts produced from the tissue culture of claim 54.

Claim 64 (Previously presented): A method for producing a male sterile canola line
wherein the method comprises:

crossing the canola plant of claim 2 with a second canola plant to yield progeny canola seed,
wherein the second canola plant has nuclear male sterility; and
growing said progeny canola seed to yield an F1 male sterile canola plant.